pb1106: Factoring when $a = $ prime (v6)

1. Factor the expression $3x^2 + 17x + 24$

2. Factor the expression $3x^2 - 2x - 5$

3. Factor the expression $11x^2 + 31x - 6$

4. Factor the expression $11x^2 + 25x + 6$

5. Factor the expression $7x^2 + 59x - 36$

6. Factor the expression $11x^2 - 80x + 21$

7. Factor the expression $5x^2 + 22x + 8$

8. Factor the expression $3x^2 - 8x - 16$

9. Factor the expression $2x^2 + 7x - 72$

10. Factor the expression $11x^2 + 37x + 12$